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(71) Applicants (for all designated States except US): **KOREA RESEARCH INSTITUTE OF BIOSCIENCE AND BIOTECHNOLOGY** [KR/KR]; 52 Oun-dong Yusung-ku, Taejeon-si 305-333 (KR). **WELSKIN CO., LTD.** [KR/KR]; 28 Yeongeon-dong Jongno-ku, Seoul 110-460 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YOO, Ick-Dong** [KR/KR]; #103-501 Hyundai Apt. Doryong-dong Yusung-ku, Taejeon-si 305-340 (KR). **KIM, Won-Gon**

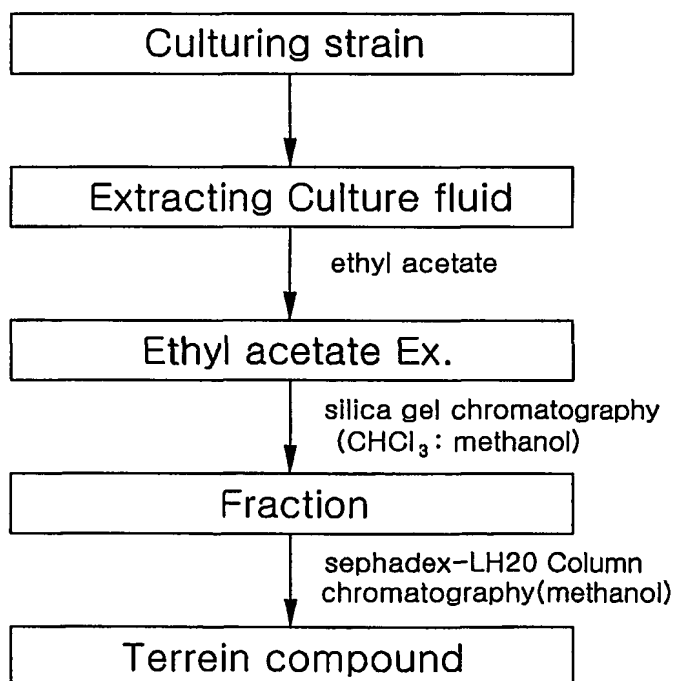
[KR/KR]; #102-508 Dasol Apt. Gung-dong Yusung-ku, Taejeon-si 305-335 (KR). **RYOO, In-Ja** [KR/KR]; #1-412 Jugong Apt. Doryong-dong Yusung-ku, Taejeon-si 305-340 (KR). **KIM, Jong-Pyung** [KR/KR]; #125-505 Hanbit Apt. Oun-dong Yusung-ku, Taejeon-si 305-755 (KR). **LEE, Sangku** [KR/KR]; #504-101 Yeolmae Maeul Apt. Jijok-dong Yusung-ku, Taejeon-si 305-330 (KR). **PARK, Seo-Hyoung** [KR/KR]; #9-201 Samsung Yeollip 56-611 Hwagokbon-dong Gangseo-ku, Seoul 157-867 (KR). **KIM, Dong-Seok** [KR/KR]; #102-206 Samsung Apt. Chang-dong Dobong-ku, Seoul 132-040 (KR). **PARK, Kyoung-Chan** [KR/KR]; #118-201 Haengdang Hanjin Town. 328-1 Haengdang-dong, Seongdong-ku, Seoul 133-070 (KR).

(74) Agent: **LEE, Won-Hee**; 8th Fl. Sung-ji Heights II 642-16 Yoksam-dong Kangnam-ku, Seoul 135-080 (KR).

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[Continued on next page]

(54) Title: TERREIN COMPOUND HAVING MELANIN BIOSYNTHESIS INHIBITORS AND ITS PREPARATION



(57) Abstract: The present invention relates to a melanin biosynthesis inhibitor containing terrein compound as an effective ingredient. The terrein compound can be easily separated from *Penicillium* sp KCTC 26245, a fungal strain inhabited in domestic soil. It does not directly inhibit tyrosinase but inhibits the expression of MITF (microphthalmia-associated transcription factor) by activating ERK (extracellular signal-regulated kinase) in melanin chromatocytes to give whitening effect. So, the melanin biosynthesis inhibiting effect of the compound is much greater than that of any other conventional inhibitors, and further the effect can be raised when the compound is used together with other inhibitors, owing to their different mechanisms. Thus, the compound of the present invention can be effectively used as a skin trouble treating agent, a skin whitening agent and a browning inhibitor.

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